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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/665,724	09/20/2000	Joseph E. Cloutier	4-4-1-1	5654
30594	7590	05/17/2005	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VA 20195			NGUYEN, TOAN D	
			ART UNIT	PAPER NUMBER
			2665	

DATE MAILED: 05/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/665,724	CLOUTIER ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	Toan D Nguyen	2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 11 April 2005.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 7-24 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 7-10, 14, -15, 19 and 22-24 is/are rejected.  
 7) Claim(s) 11-13, 16-18, 20 and 21 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

## DETAILED ACTION

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action and Advisory action are persuasive and therefore, the finality of that action and Advisory action are withdrawn.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 7-10, 15, 19 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sen et al. (US 6,330,451) in view of Kuusinen et al. (US 6,757,245).

For claim 7, Sen et al. disclose selectively delaying data communications in a wireless communication system to provide voice communications capacity, comprising:

inserting channel delay in data (figure 2, reference 105) being carried over a communication channel (col. 6 line 66 to col. 7 line 1).

However, Sen et al. do not disclose increase a length of time required for a time out and decrease a number of ramp up times. In an analogous art, Kuusinen et al. disclose increase a length of time required for a time out which in turn decreases a number of ramp up time (col. 3 lines 6-7).

One skilled in the art would have recognized increase a length of time required for a time out and decrease a number of ramp up times, and would have applied Kuusinen et al.'s adjust timer's time out value in Sen et al.'s add delay to the data communication. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Kuusinen et al.'s apparatus and associated method, for communicating packet data in a network including a radio link in Sen et al.'s selectively delaying data communications in a wireless communication system to provide voice communications capacity with the motivation being to prevent of TCP congestion (col. 3 lines 5-8).

For claim 8, Sen et al. disclose wherein said inserting includes inserting channel delay into data (figure 2, reference 105) to be transmitted by a base station (figure 2, reference 106) over said communication channel (col. 6 lines 66-67).

For claim 9, Sen et al. disclose further comprising:

controlling an amount of said channel delay inserted in said data (col. 6 lines 50-55).

For claim 10, Sen et al. disclose wherein said controlling includes:

monitoring acknowledge messages received in response to said data transmitted with said delay (col. 6 lines 62-66), and

determining a desired channel delay for insertion based on a delay observed between transmission of said data and reception of said acknowledge messages (col. 6 lines 51-55 and col. 6 lines 61-66).

For claim 15, Sen et al. disclose selectively delaying data communications in a wireless communication system to provide voice communications capacity, comprising:

means for transmitting and receiving data over a communication channel (figure 2, col. 6 lines 34-37); and

means for inserting channel delay into data (figure 2, reference 105) to be transmitted over said communication channel (col. 6 line 66 to col. 7 line 1).

However, Sen et al. do not disclose increase a length of time required for a time out and decrease a number of ramp up times. In an analogous art, Kuusinen et al. disclose increase a length of time required for a time out which in turn decreases a number of ramp up time (col. 3 lines 6-7).

One skilled in the art would have recognized increase a length of time required for a time out and decrease a number of ramp up times, and would have applied Kuusinen et al.'s adjust timer's time out value in Sen et al.'s add delay to the data communication. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Kuusinen et al.'s apparatus and associated method, for communicating packet data in a network including a radio link in Sen et al.'s selectively delaying data communications in a wireless communication system to

provide voice communications capacity with the motivation being to prevent of TCP congestion (col. 3 lines 5-8).

For claim 19, Sen et al. disclose selectively delaying data communications in a wireless communication system to provide voice communications capacity, comprising:

means for transmitting and receiving data over a communication channel (figure 2, col. 6 lines 34-37); and

means for inserting channel delay (figure 2, reference 105) in said communication channel for data transmission between said mobile communication device and an application (col. 6 line 66 to col. 7 line 1).

However, Sen et al. do not disclose control time out for data transmission and decrease a number of ramp up times. In an analogous art, Kuusinen et al. disclose control time out for data transmission which in turn decreases a number of ramp up time (col. 3 lines 6-7).

One skilled in the art would have recognized control time out for data transmission and decrease a number of ramp up times, and would have applied Kuusinen et al.'s adjust timer's time out value in Sen et al.'s add delay to the data communication. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Kuusinen et al.'s apparatus and associated method, for communicating packet data in a network including a radio link in Sen et al.'s selectively delaying data communications in a wireless communication system to provide voice communications capacity with the motivation being to prevent of TCP congestion (col. 3 lines 5-8).

For claim 22, Sen et al. disclose selectively delaying data communications in a wireless communication system to provide voice communications capacity, comprising:

inserting channel delay (figure 2, reference 105) in data being carried over a communication channel (col. 6 line 66 to col. 7 line 1).

However, Sen et al. do not disclose decreasing a number of ramp up times. In an analogous art, Kuusinen et al. disclose decreasing a number of ramp up time by increasing TCP timer time-out values (col. 3 lines 6-7).

One skilled in the art would have recognized decreasing a number of ramp up times, and would have applied Kuusinen et al.'s adjust timer's time out value in Sen et al.'s add delay to the data communication. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Kuusinen et al.'s apparatus and associated method, for communicating packet data in a network including a radio link in Sen et al.'s selectively delaying data communications in a wireless communication system to provide voice communications capacity with the motivation being to prevent of TCP congestion (col. 3 lines 5-8).

For claim 23, Sen et al. disclose selectively delaying data communications in a wireless communication system to provide voice communications capacity, comprising:

means for transmitting and receiving data over a communication channel (figure 2, col. 6 lines 34-37); and

means for inserting channel delay (figure 2, reference 105) into data to be transmitted over said communication channel (col. 6 line 66 to col. 7 line 1).

However, Sen et al. do not disclose decreasing a number of ramp up times. In an analogous art, Kuusinen et al. disclose decreasing a number of ramp up time by increasing TCP timer time-out values (col. 3 lines 6-7).

One skilled in the art would have recognized decreasing a number of ramp up times, and would have applied Kuusinen et al.'s adjust timer's time out value in Sen et al.'s add delay to the data communication. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Kuusinen et al.'s apparatus and associated method, for communicating packet data in a network including a radio link in Sen et al.'s selectively delaying data communications in a wireless communication system to provide voice communications capacity with the motivation being to prevent of TCP congestion (col. 3 lines 5-8).

For claim 24, Sen et al. disclose selectively delaying data communications in a wireless communication system to provide voice communications capacity, comprising:  
means for transmitting and receiving data over a communication channel (figure 2, col. 6 lines 34-37); and

means for inserting channel delay (figure 2, reference 105) in said communication channel between said mobile communication device and an application (col. 6 line 66 to col. 7 line 1).

However, Sen et al. do not disclose to decrease a number of ramp up times. In an analogous art, Kuusinen et al. disclose decreasing a number of ramp up time by increasing TCP timer time-out values (col. 3 lines 6-7).

One skilled in the art would have recognized decreasing a number of ramp up times, and would have applied Kuusinen et al.'s adjust timer's time out value in Sen et al.'s add delay to the data communication. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Kuusinen et al.'s apparatus and associated method, for communicating packet data in a network including a radio link in Sen et al.'s selectively delaying data communications in a wireless communication system to provide voice communications capacity with the motivation being to prevent of TCP congestion (col. 3 lines 5-8).

5. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sen et al. (US 6,330,451) in view of Kuusinen et al. (US 6,757,245) further in view of Riihinen et al. (US 6,697,331).

For claim 14, Sen et al. in view of Kuusinen et al. do not disclose wherein said inserting includes adding channel delay to said communication channel at a mobile station to control time out for data transmission between said mobile station and an application. In an analogous art, Riihinen et al. disclose wherein said inserting includes adding channel delay to said communication channel at a mobile station to control time out for data transmission between said mobile station (figure 2, reference 20) and an application (figure 2, reference 46) (col. 17 lines 56-61).

One skilled in the art would have recognized wherein said inserting includes adding channel delay to said communication channel at a mobile station to control time out for data transmission between said mobile station and an application, and would have applied Riihinen et al.'s time out in the system of Sen et al. Therefore, it would

have been obvious to one of ordinary skill in the art at the time of the invention, to use Riihinen et al.'s link layer acknowledgement and retransmission for cellular telecommunications in Sen et al.'s selectively delaying data communications in a wireless communication system to provide voice communications capacity with the motivation being advantageous to set the time out values of the poll timer and receive timer EPC to accommodate these transport network delays and processing delays (col. 17 lines 65-67).

***Allowable Subject Matter***

6. Claims 11-13, 16-18 and 20-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

7. Applicant's arguments with respect to claims 7-24 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

8. Applicant's amendment on January 05, 2004 necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

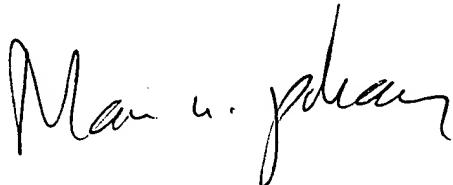
mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D Nguyen whose telephone number is 571-272-3153. The examiner can normally be reached on M-F (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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